

No. 747,903.

PATENTED DEC. 22, 1903.

W. H. BENNETT.  
BRUSH.

APPLICATION FILED APR. 1, 1903.

NO MODEL.

Fig. 1.

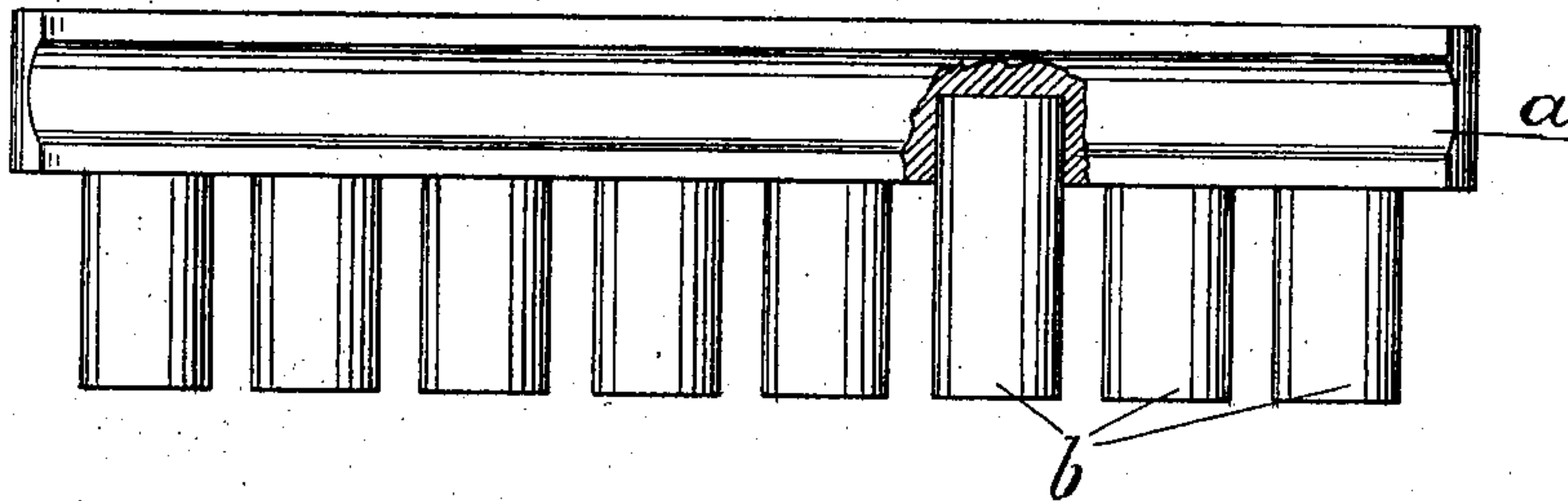


Fig. 2.

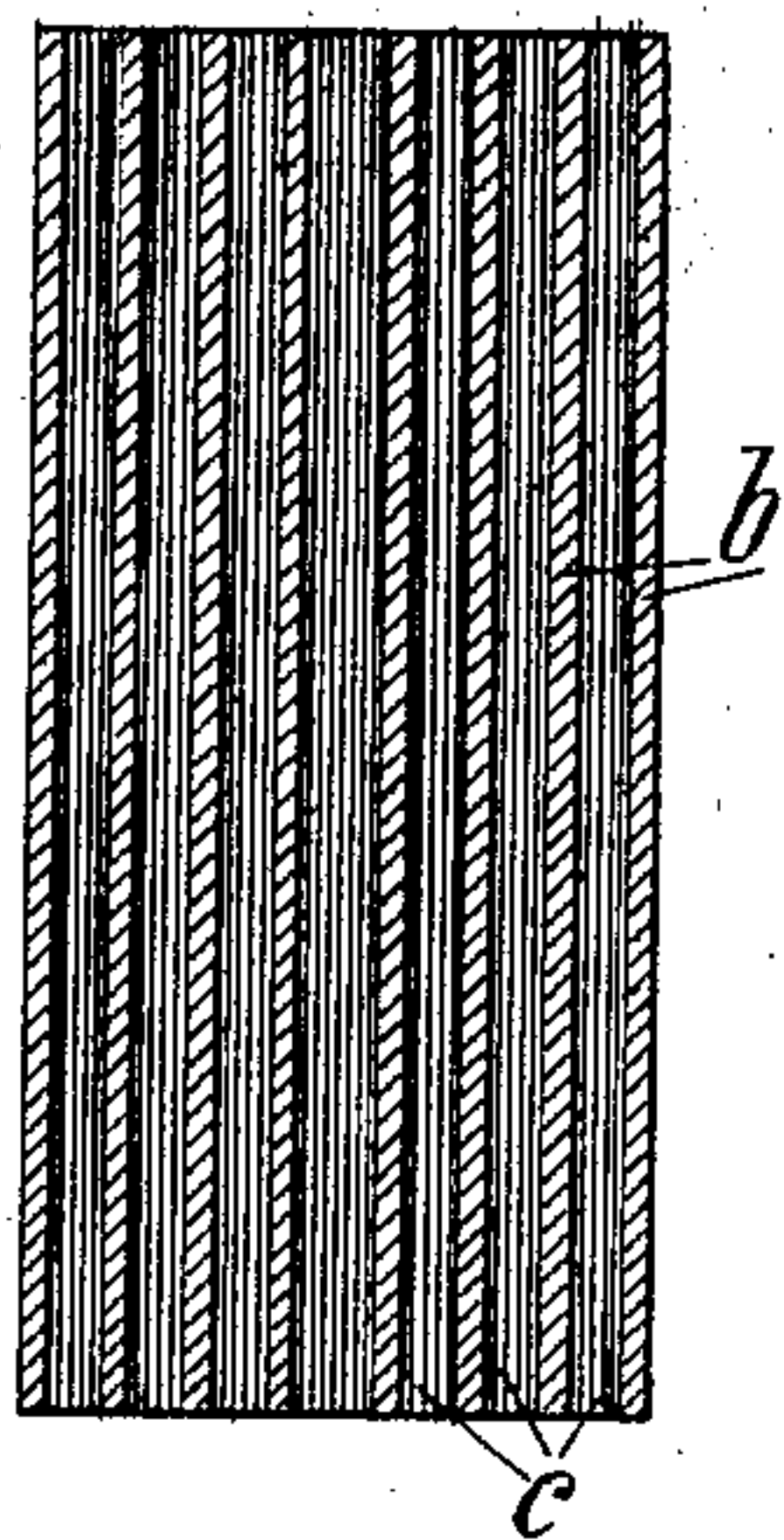


Fig. 3.

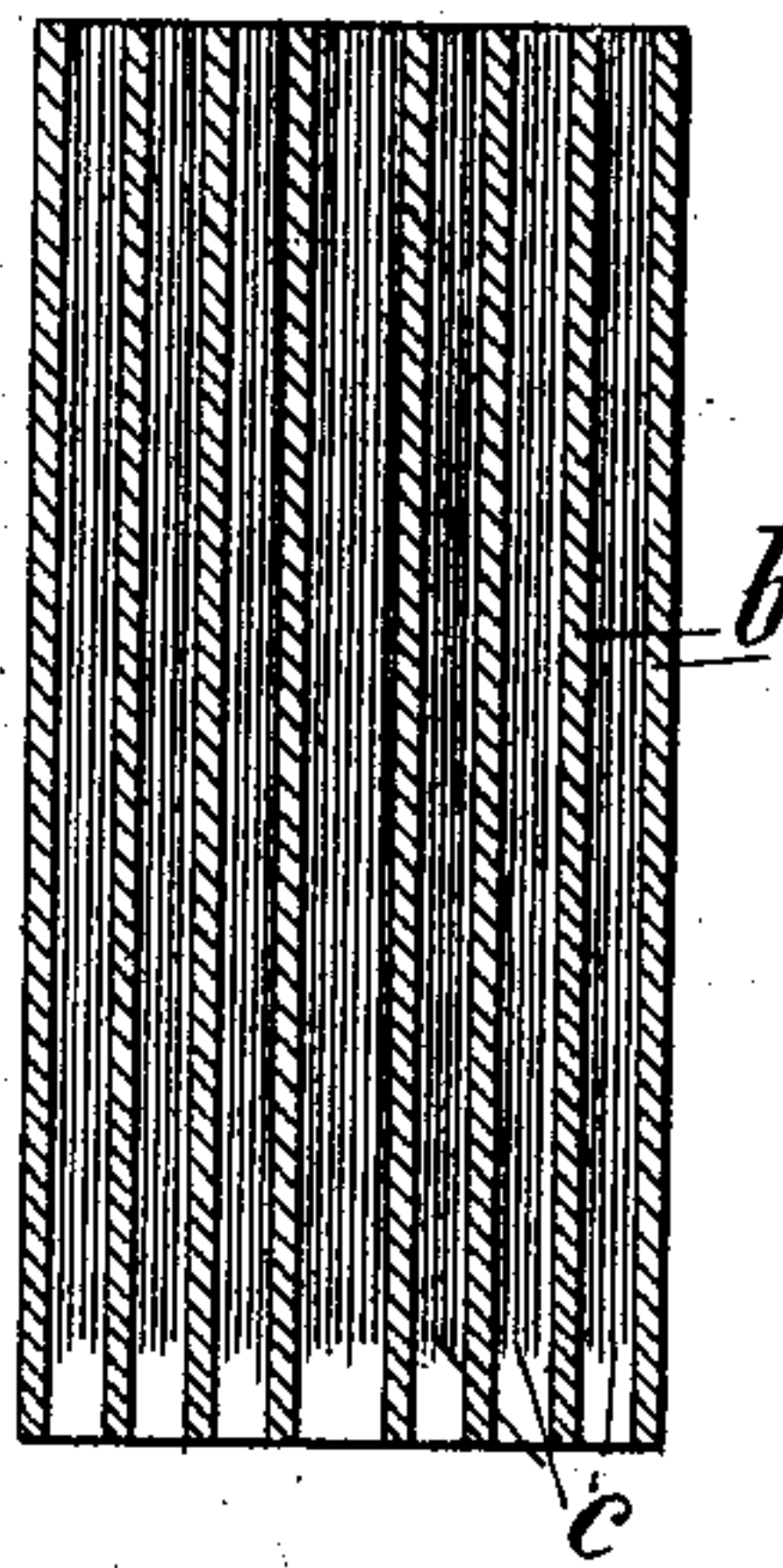


Fig. 4.

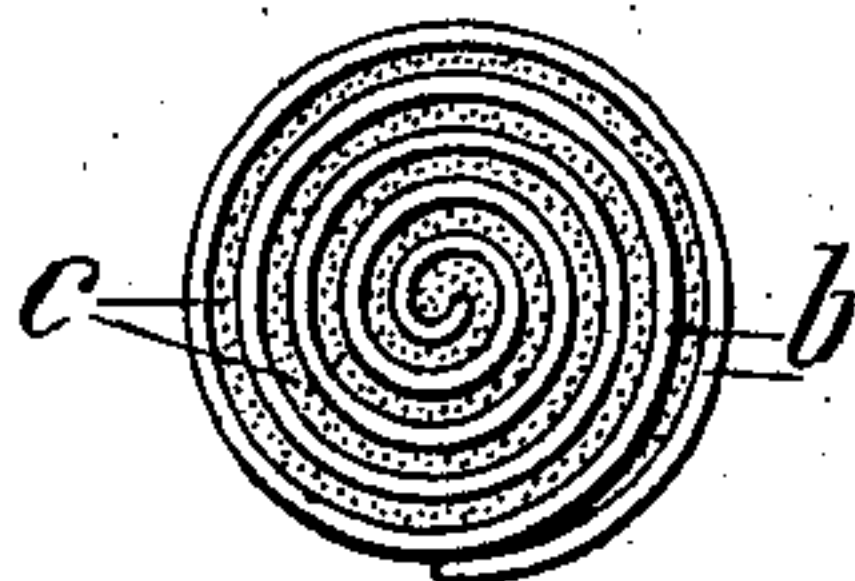
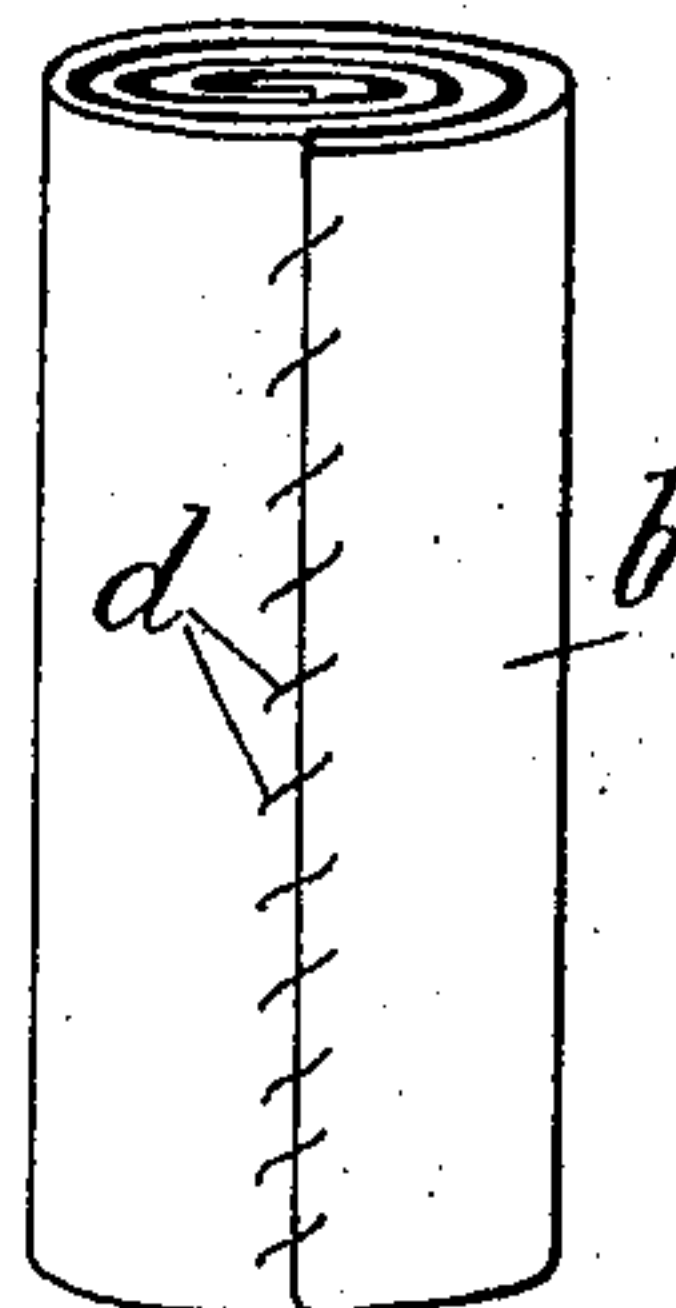


Fig. 5.



Witnesses:  
Fred P. Hamstead  
A Pearl Moore

Inventor:  
William H. Bennett  
By Atty. Wm. H. Cooley.



# UNITED STATES PATENT OFFICE.

WILLIAM H. BENNETT, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF  
TO LOVASSO FIELD, OF ROCHESTER, NEW YORK.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 747,903, dated December 22, 1903.

Application filed April 1, 1903. Serial No. 150,577. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. BENNETT, a citizen of the United States, and a resident of Rochester, in the county of Monroe and State of New York, have invented an Improved Brush, of which the following is a specification.

The object of my invention is the economical construction of an improved brush which shall be adapted to a large range of different uses in the art of brushing and scrubbing, as well as in kindred arts.

With this object in view my invention consists, essentially, of a brush comprising a tuft or series of tufts of felt or other similar fabric coiled upon itself, with bristles intermingled between the several convolutions of such coil of felt, such bristles being unattached in any way to such felt throughout that portion of their length extending beyond the back of the brush.

The accompanying figures of drawings illustrating my invention are as follows:

Figure 1 is a side view of a brush constructed in accordance with my invention with a part of the back thereof broken away to show the insertion therein of one of the tufts. Figs. 2 and 3 show enlarged vertical sections of two forms of such tufts. Fig. 4 shows, in an enlarged horizontal section, one of such tufts, while Fig. 5 shows one of such tufts in an enlarged perspective. Figs. 4 and 5 are drawn to a smaller scale than Figs. 2 and 3, which are greatly enlarged for the purpose of showing more clearly the arrangement of the bristles between the layers of fabric constituting the tufts.

Similar letters refer to similar parts throughout the drawings.

Referring to the drawings, *a* is the back of the brush, having the tufts *b* secured therein. These tufts *b*, after being formed in the manner to be explained, are forced into the holes in the back of the brush, into which they are arranged to fit tightly, and are cemented therein with glue or other suitable cement, preferably waterproof. Each of these tufts *b* is composed of a strip of felt or like fabric coiled upon itself, as indicated in the drawings, with bristles *c* arranged transversely of such strip of felt and parallel with the axis

of the coil of the tuft *b*. It is immaterial whether the bristles extend even with the brushing-surface of the felt *b*, as shown in Fig. 2, or fall a little back of such surface of the tuft, as shown in Fig. 3. The complete tufts, as shown in Fig. 4, may, if desired, have the loose outer end of the coil of felt or fabric *b* stitched or otherwise secured to the next layer or convolution beneath.

A brush constructed in accordance with my invention answers admirably for either cleaning or polishing shoes, as a scrubbing-brush, as a blackboard-eraser, and as a polishing or buffing brush. Such a brush works admirably for the purpose of scrubbing and may be used to good advantage as a combined scrubber and mop, the felt acting as a mopping-surface, the bristles as a scrubbing-surface, and the felt operating to prevent the bristles from throwing suds or cleansing liquid against adjacent objects.

I would have it understood that I do not limit myself to any particular style or shape of coil, and I desire to call attention to the special feature of my present invention, which consists in the combination of felt or like fabric and bristles to form a brushing-surface in which the bristles are unattached to the fabric throughout that portion of their length extending beyond the back of the brush or the support for such brushing-surface and with such brushing-surface composed of such bristles and such fabric, the fabric arranged to inclose the bristles on two or more sides in such a way as to bind them together, while at the same time the bristles serve to stiffen and support the strip of fabric. Attention is especially called to this co-operation between the bristles and the fabric, whereby without detracting from the elasticity or flexibility of the brushing-surfaces the bristles cooperate to support and stiffen the fabric and the fabric cooperates to support and bind together the bristles.

I have sometimes found it desirable to extend the strip of fabric a little beyond the free ends of the bristles, between the folds or layers thereof.

What I claim is—

1. In a brush, in combination with a suitable support therefor, a brushing-surface



comprising a strip of fabric coiled upon itself and unattached bristles of suitably flexible and elastic material arranged between the convolutions thereof.

5 2. In a brush, in combination with a suitable support therefor, a brushing-surface comprising a strip of fabric and adjacent thereto and encircled thereby a row of unattached bristles of suitably flexible and elastic  
10 material, said bristles arranged transversely to said strip of fabric.

3. In a brush, in combination with a suitable support therefor, a brushing-surface comprising a strip of fabric and unattached  
15 bristles of suitably flexible and elastic material intermingled between the layers of, and arranged transversely to, said strip of fabric.

4. In a brush, in combination with a suitable support therefor, a strip of fabric coiled  
20 upon itself and unattached bristles of suit-

ably flexible and elastic material arranged transversely to said strip between the convolutions thereof.

5. In a brush, in combination with a suitable support therefor, a strip of fabric and  
25 adjacent thereto and encircled thereby a row of unattached bristles of suitably flexible and elastic material, said bristles arranged transversely to said strip of fabric.

6. In a brush, in combination with a suitable support therefor, a strip of fabric and  
30 unattached bristles of suitably flexible and elastic material intermingled between the layers of, and arranged transversely to, said strip of fabric.

WILLIAM H. BENNETT.

Witnesses:

A. PEARL MOORE,  
FRED. P. MANSBENDEL.